



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Richards et al.

Art Unit: 2834

Application No. 10/033,353

Filed: October 25, 2001

For: PIEZOELECTRIC MICRO-TRANSDUCERS,
METHODS OF USE AND MANUFACTURING
METHODS FOR SAME

Examiner: Dougherty, Thomas M.

Date: January 6, 2003

CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service on January 6, 2003 as First Class Mail in an envelope addressed to: BOX NON-FEE AMENDMENT, COMMISSIONER FOR PATENTS, WASHINGTON, D.C. 20231.

Attorney for Applicant

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AMENDMENT

This paper responds to the Office action mailed October 7, 2002. Please cancel claims
10 6 and 22-74 without prejudice. Applicants reserve the right to file continuing applications
directed to claims 22-74. In addition, please amend the application as follows:

In the Claims

Please amend claim 1 as follows:

1. (Amended) A micro-transducer comprising:
15 a first membrane;
a second membrane comprising a first electrode, a second electrode, and a
piezoelectric member disposed therebetween;
a fluid-tight cavity cooperatively formed between the first and second membranes; and
a working fluid disposed in the cavity, wherein the working fluid is a saturated
20 mixture of vapor and liquid.